PHOTOFACT* Folder

*TRADE MARK

SILVERTONE MODELS
179-16, 180-16, 194-16, 195-16
(CH. 132.890)

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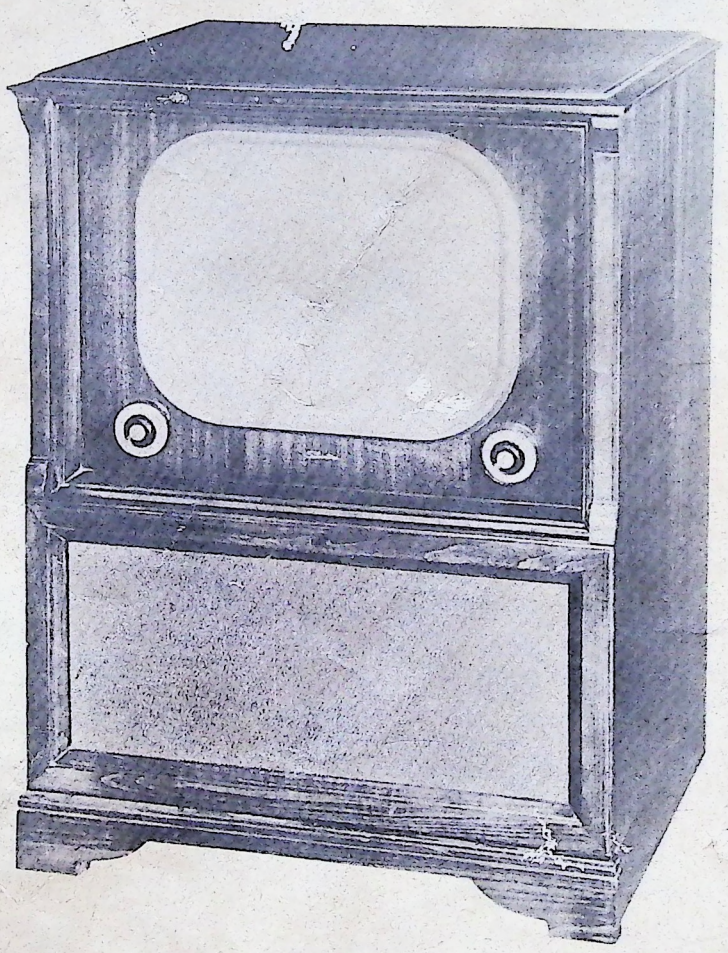

MODEL 195-16

SILVERTONE MODELS
179-16, 180-16, 194-16, 195-16
(CH. 132.890)

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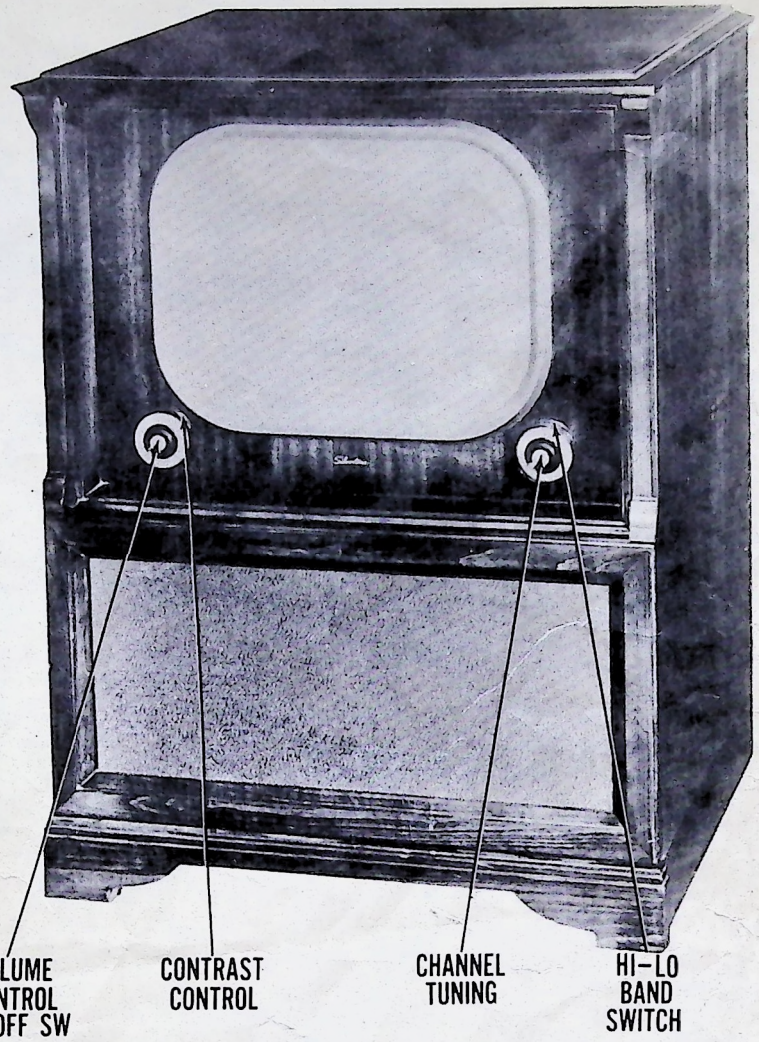
SILVERTONE MODELS 179-16, 180-16, 194-16, 195-16 (Ch. 132.890)



SILVERTONE MODELS 179-16, 180-16, 194-16, 195-16 (Ch. 132.890)

SILVERTONE MODEL 195

TRADE NAME	Silvertone, Models 179, 180, 194, 195, (Ch. 132.890)
SUPPLIER	Sears, Roebuck & Co., 925 S. Homan Ave., Chicago, Illinois
TYPE SET	Television Receiver
TUBES	Twenty
POWER SUPPLY	110-120 Volts AC - 60 Cycle
RATING	1.8 Amp. @ 117 Volts AC
TUNING RANGE	Channels 2 thru 13

INDEX

Alignment Instructions 6, 7
Drive Cord Stringing 10
Horizontal Sweep Circuit Adjustment 10
Parts List And Description 12, 13, 15
Photographs
Cabinet - Rear View 10
Capacitor And Alignment Identification 4, 9
Photographs (Continued)
Chassis - Top View 3
RF Tuner 7
Resistor And Inductor Identification 11, 14
Schematic 2
Tube Placement Chart 5
Voltage And Resistance Measurements 8

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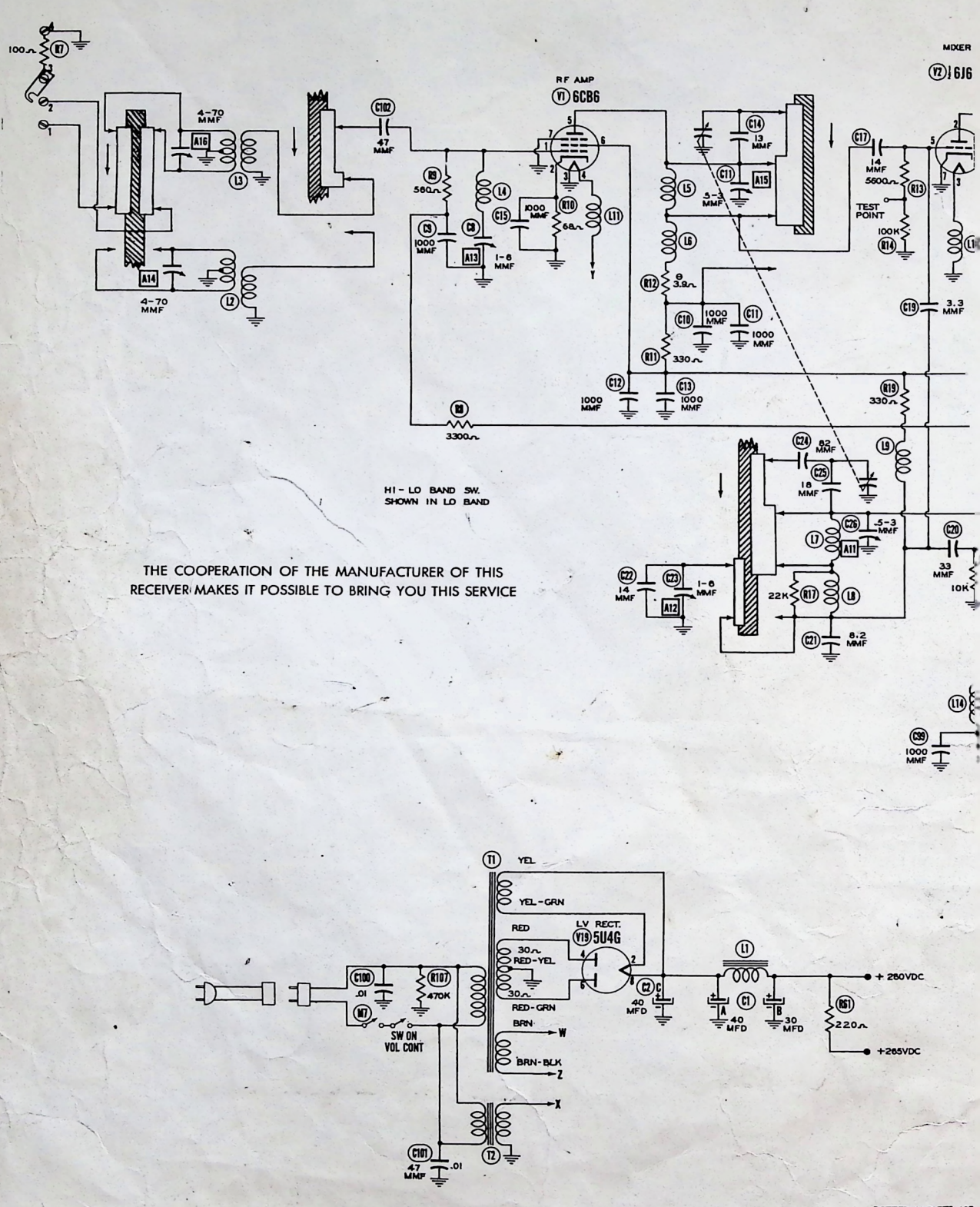

THE COOPERATION OF THE MANUFACTURER OF THIS RECEIVER MAKES IT POSSIBLE TO BRING YOU THIS SERVICE

DOTTED IN PARTS ARE
MODELS. WHEN DOTT
USED POINTS MARKED

⊖ SEE PARTS LIST FI
VALUE OR APPLIC

A PHOTOFACT STANDARD NOTATION SCHEMATIC

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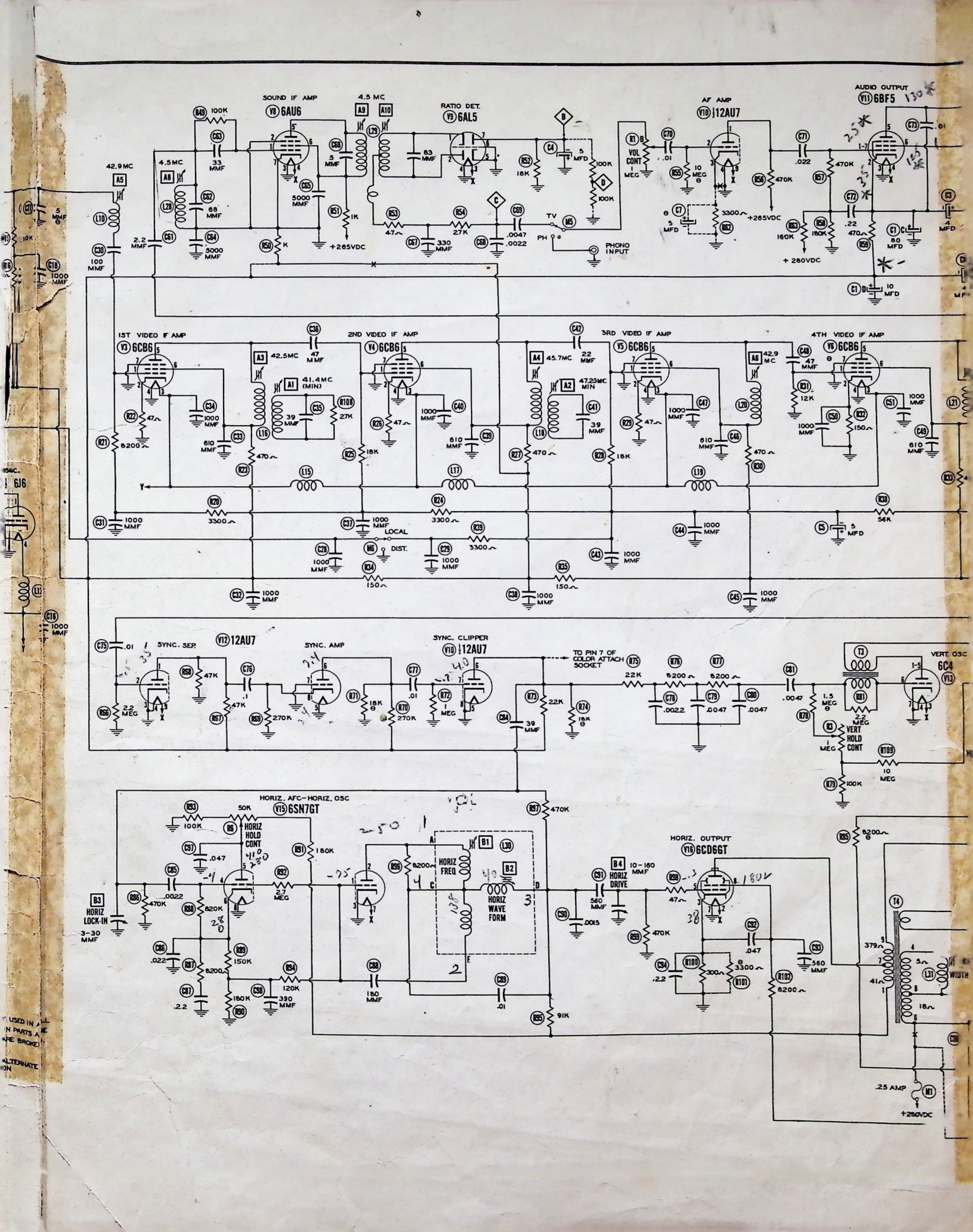
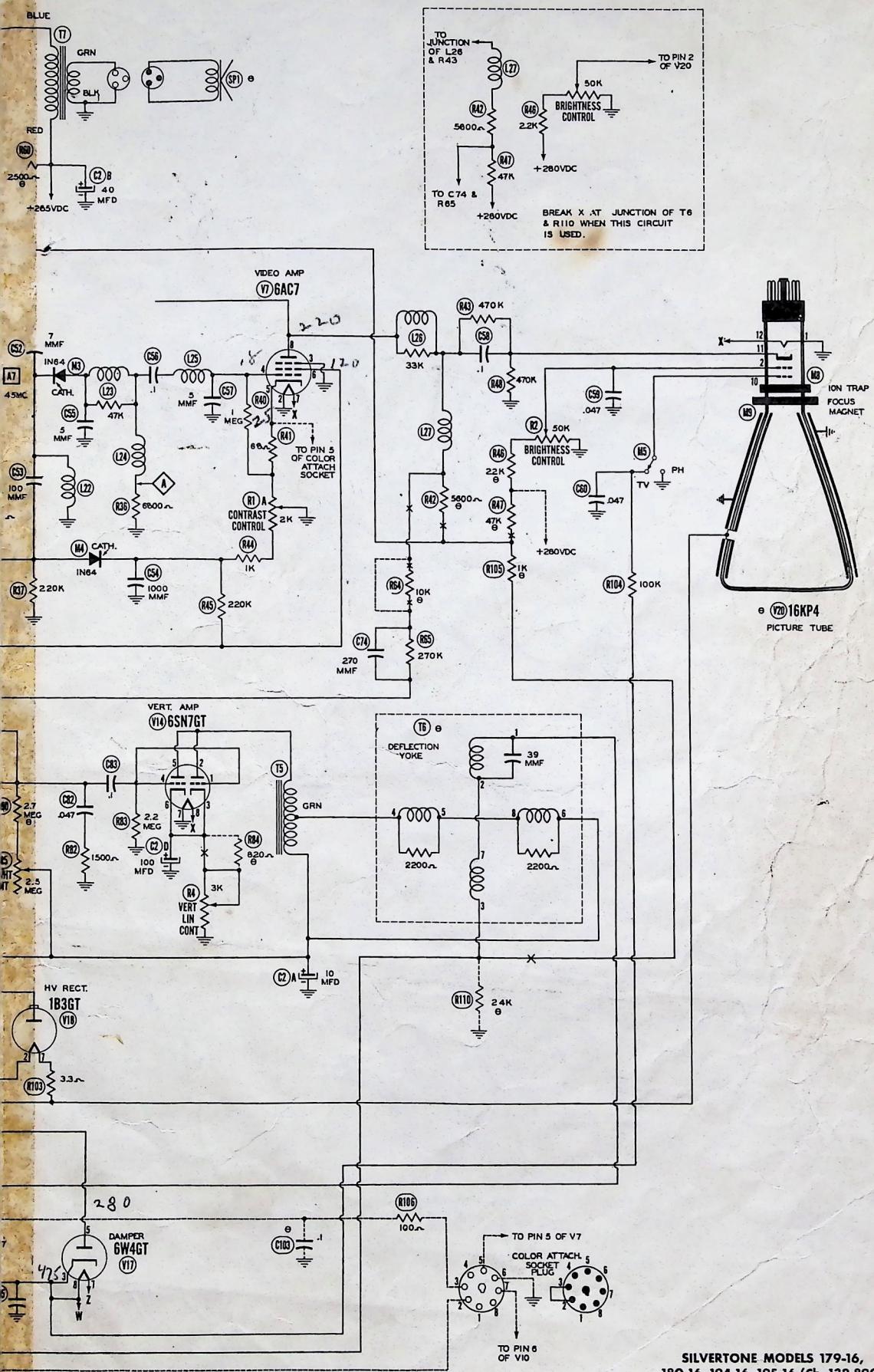
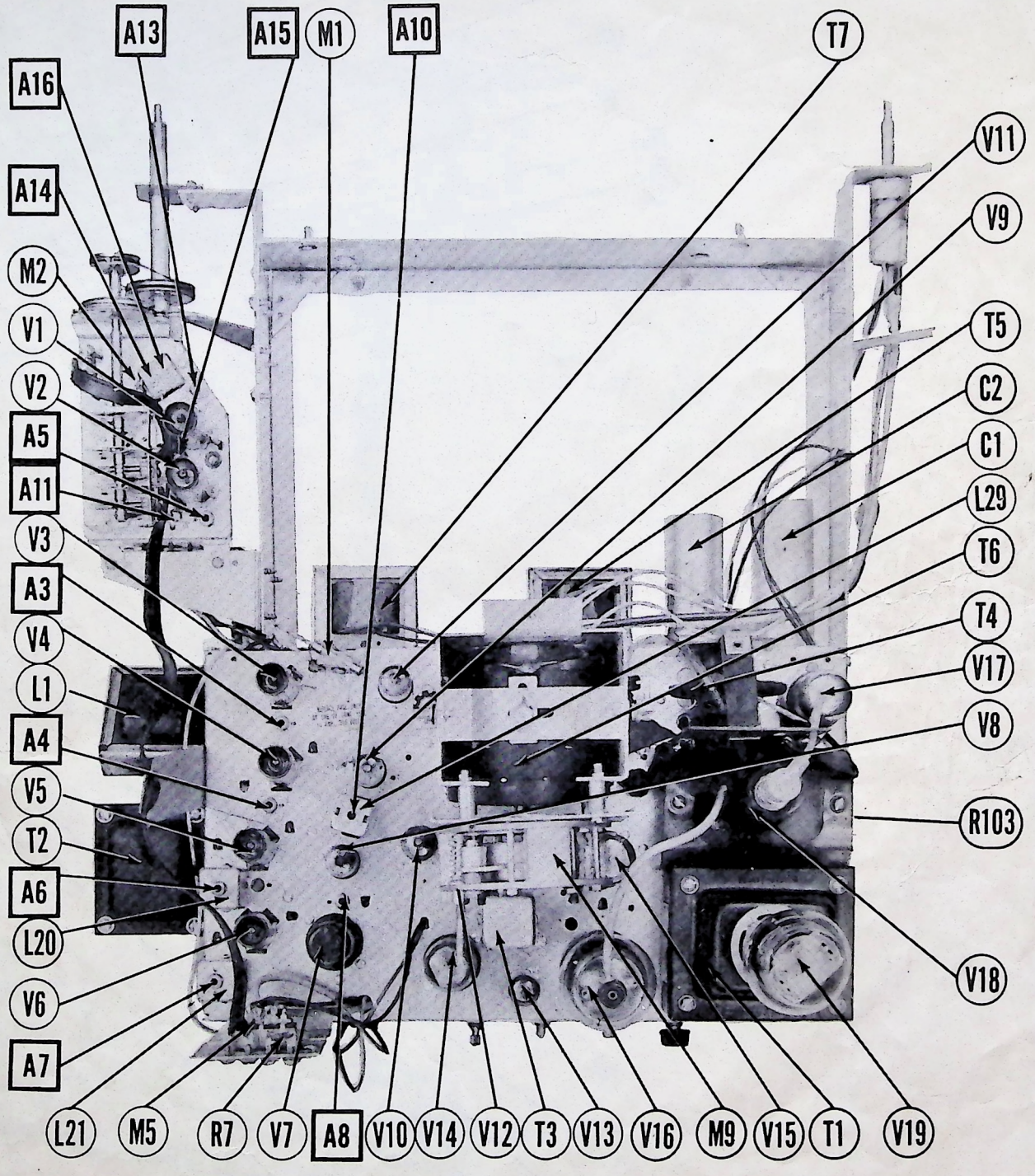

SOUND IF AMP
V8 6AU6
4.5 MC
RATIO DET.
V9 6AL5
AF AMP
V10 12AU7
AUDIO OUTPUT
V11 6BF5
42.9MC
4.5MC
VOL CONT 1 MEG
+265VDC
+280VDC
TV
PH
PHONO INPUT
1ST VIDEO IF AMP
V3 6CB6
2ND VIDEO IF AMP
V4 6CB6
3RD VIDEO IF AMP
V5 6CB6
4TH VIDEO IF AMP
V6 6CB6
42.5MC
41.4MC (MIN)
45.7MC
47.25MC MIN
42.9 MC
LOCAL
DIST.
SYNC. SEP.
V12 12AU7
SYNC. AMP
SYNC. CLIPPER
V10 12AU7
TO PIN 7 OF COLOR ATTACH SOCKET
VERT. OSC
6C4
V13
VERT HOLD CONT
HORIZ. AFC-HORIZ. OSC
V15 6SN7GT
HORIZ HOLD CONT
HORIZ LOCK-IN
HORIZ FREQ
HORIZ WAVE FORM
HORIZ. OUTPUT
V16 6CD6GT
HORIZ DRIVE
WIDTH
.25 AMP
+280VDC

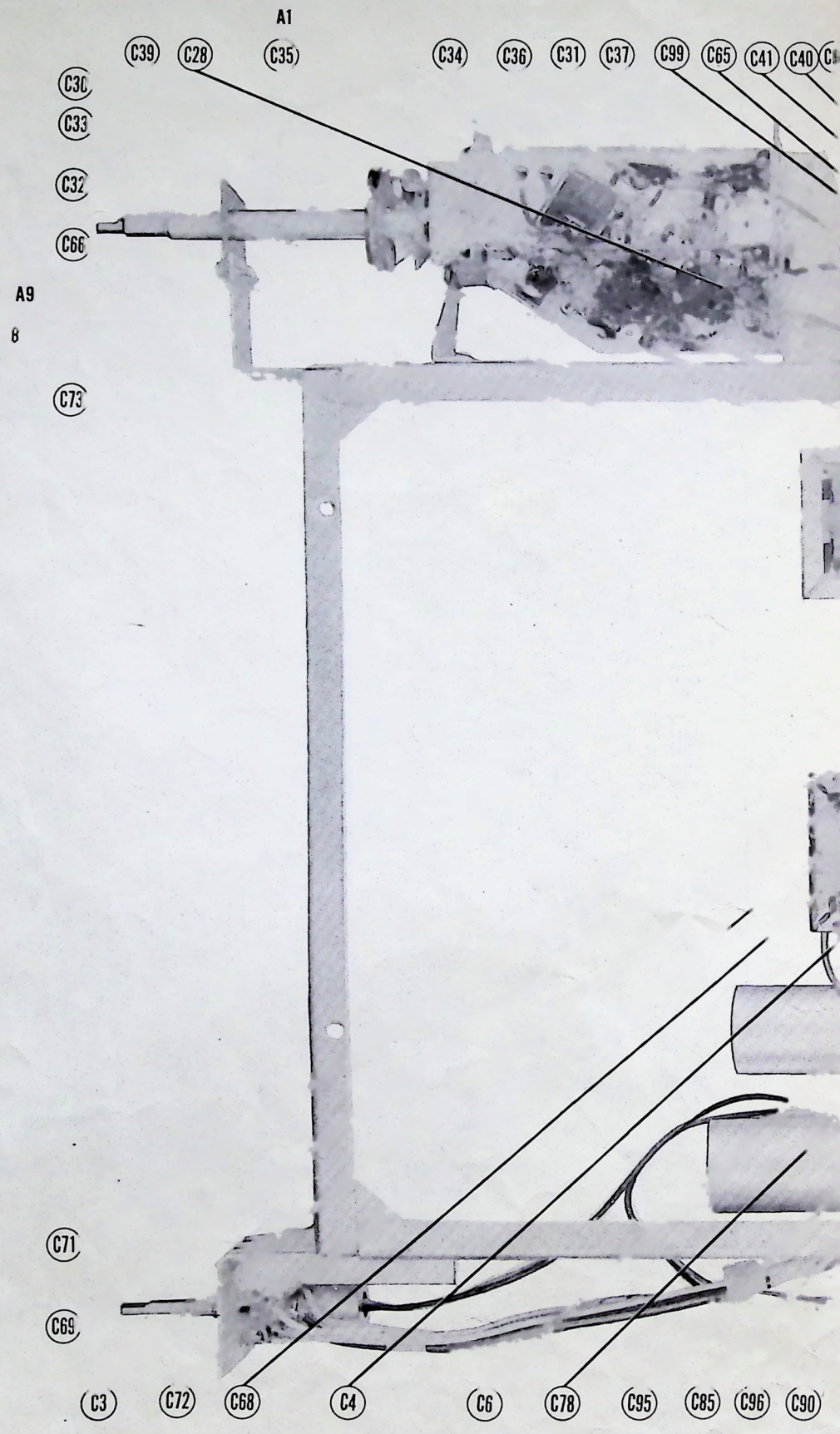


SILVERTONE MODELS 179-16, 180-16, 194-16, 195-16 (Ch. 132.890)

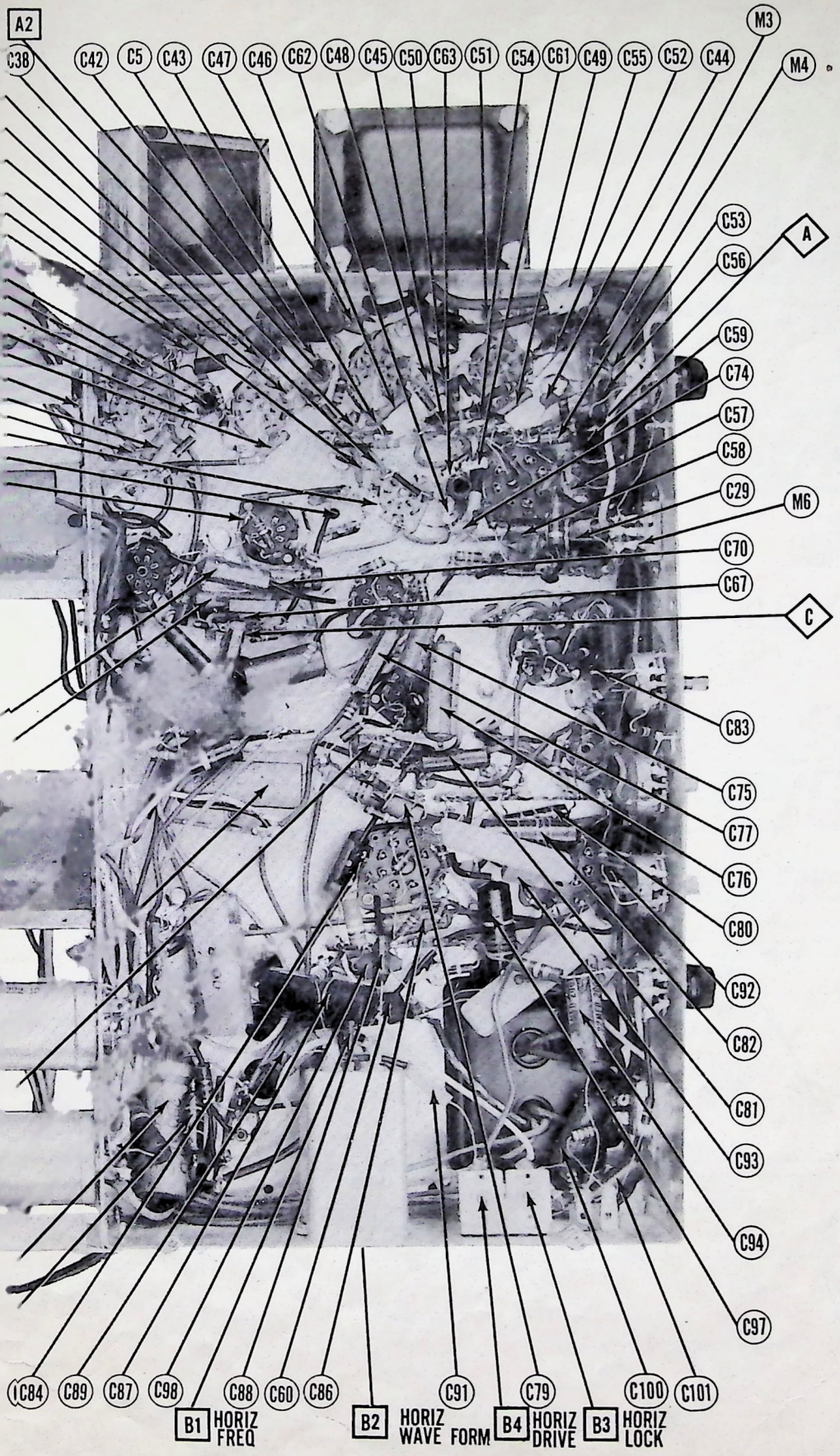
SILVERTONE MODELS 179-16, 180-16, 194-16, 195-16 (Ch. 132.890)



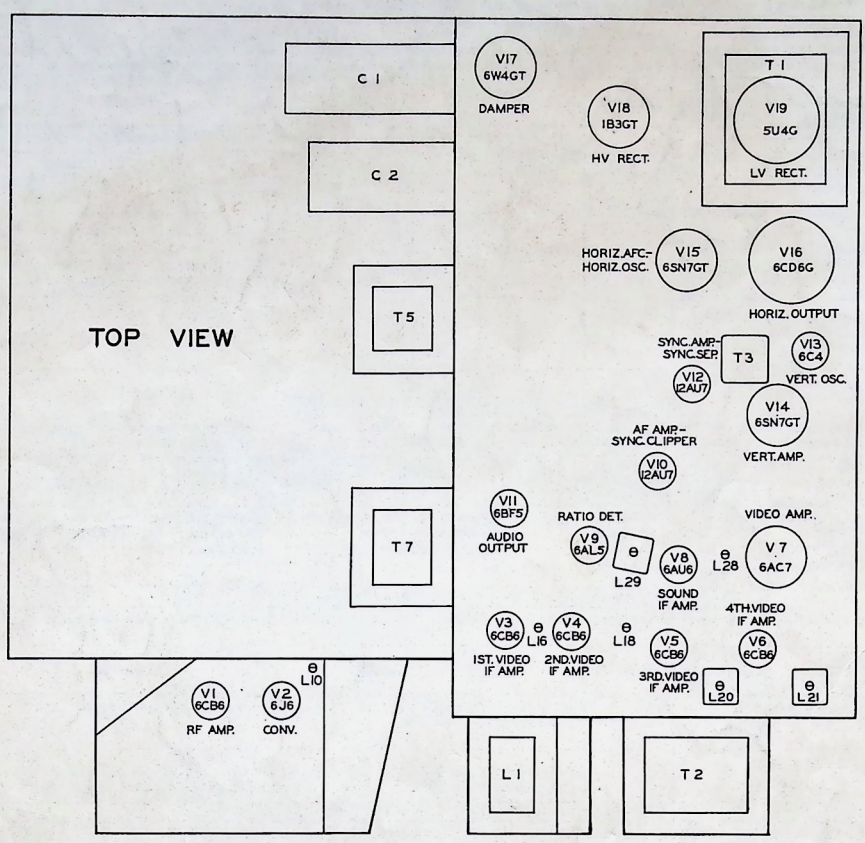
CHASSIS TOP VIEW

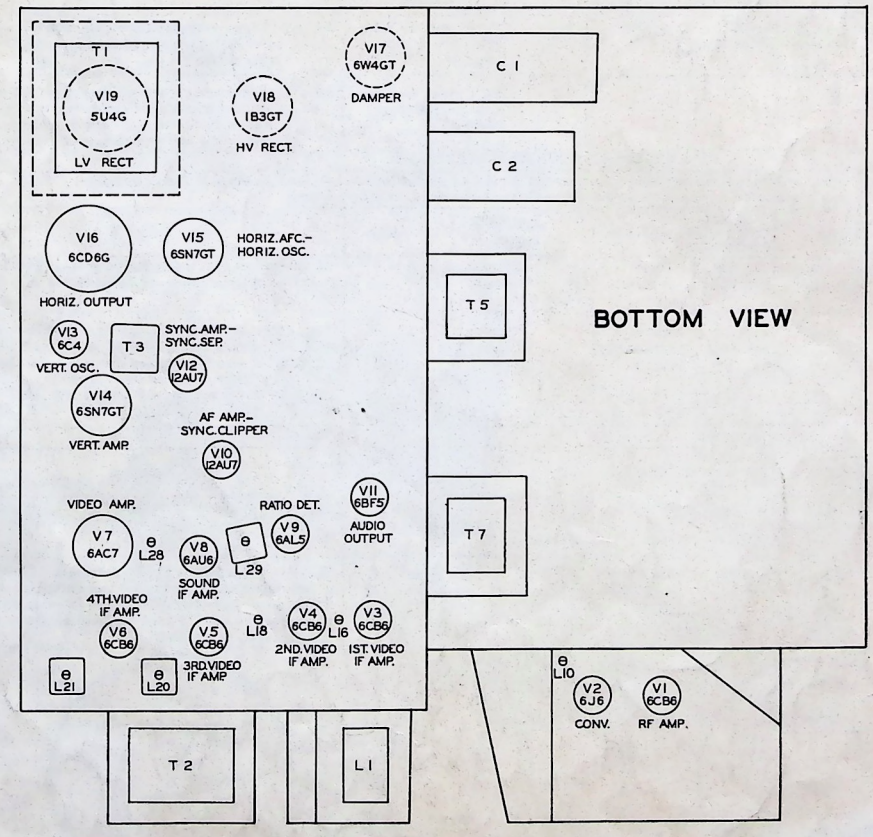


CHASSIS BOTTOM VIEW-CAPACITO



AND ALIGNMENT IDENTIFICATION





TUBE PLACEMENT CHART

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

The high voltage shock hazard may be eliminated by removing the horizontal oscillator tube (V15) from its socket.

VIDEO IF ALIGNMENT

Remove the converter tube (V2) and replace it with a 6J6 which has pin 1 removed, this will disable the local oscillator and prevent the possibility of erroneous indications. Connect the negative lead of a 3 volt battery to the junction of R38 and C5, connect the positive lead to chassis.

	DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
1.	Direct	High side to an ungrounded tube shield floating over dummy converter tube (V2). Low side to chassis.	41.4MC (Unmod.)	Any	DC probe to Point (A). Common to chassis.	A1	Adjust for MINIMUM deflection.
2.	"	"	47.25MC	"	"	A2	"
3.	"	"	42.5MC	"	"	A3	Adjust for maximum deflection. Attenuate signal generator to maintain 2 volt reading.
4.	"	"	45.75MC	"	"	A4	"
5.	"	"	42.9MC	"	"	A5, A6	"
6.	"	"	45.0MC	"	"	A7	"

OVERALL VIDEO IF RESPONSE CHECK

Connect a 27KΩ isolating resistor in series with the oscilloscope vertical input, and a 250MMF capacitor across the vertical input terminals. Connect the synchronized sweep voltage from the signal generator to the horizontal input of the oscilloscope for horizontal deflection.

	DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
7.	Direct	High side to an ungrounded tube shield floating over dummy converter tube (V2). Low side to chassis.	45MC (10MC SWP)	41.4MC 42.75MC 45.75MC 47.25MC	Any	Vert. amp. thru 27KΩ to Point (A). Low side to chassis.		Check for response curve similar to figure 1. If necessary retouch A1 thru A6 for proper response.

SOUND IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM

Connect two matched 100KΩ (±1%) resistors in series from Point B to chassis. The junction of these two resistors is alignment Point D as shown on the schematic.

	DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
8.	.01MFD	High side to pin 4 (grid) of 6AC7 (V7). Low side to chassis.	4.5MC (Unmod.)	Any	DC probe to Point (B). Common to chassis.	A8, A9	Adjust for maximum deflection.
9.	"	"	"	"	DC probe to Point (C). Common to Point (D).	A10	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.

SOUND IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE

Use frequency modulated signal with 60 ∿ modulation and 450KC sweep. Use 120 ∿ sawtooth voltage in scope for horizontal deflection.

	DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
8.	.01MFD	High side to pin 4 (grid) of 6AC7 (V7). Low side to chassis.	4.5MC (450KC SWP)	4.5MC	Any	Vert. amp. to Point (B). Low side to chassis.	A8, A9	Disconnect stabilizer capacitor C4. Adjust for maximum amplitude and symmetry as per figure 2.
9.	"	"	"	"	"	Vert. amp. to Point (C). Low side to chassis.	A10	Reconnect capacitor C4: Adjust A10 so 4.5MC occurs at center of crossover lines as per figure 3. SLIGHTLY retouch A9 for maximum amplitude and straightness of crossover lines.

HIGH BAND OSCILLATOR ALIGNMENT

Turn the band switch to "high band" (counter-clockwise). Remove the dummy converter tube and replace the original 6J6 in its socket. The sweep generator output lead should be terminated with its characteristic impedance, usually 50 ohms.

	DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
10.	Two 120Ω carbon resistors	Across antenna terminals with 120Ω in each lead.	258.5MC (Unmod.)	Tuning gang fully open.	Vert. amp. to Point (E). Low side to chassis.	A 11	Adjust for zer beat indication on scope. This will be indicated by a narrow trace between two wide traces.
11.	"	"	Approx. 219.5MC	Tuning gang fully closed.	"	L7	Vary generator frequency until zero beat occurs. If zero beat occurs above 219.5MC compress L7 turns slightly. If zero beat occurs below 219.5MC expand L7 turns slightly. Repeat steps 10 and 11 until high band oscillator cover exactly 219.5MC to 258.5MC.

LOW BAND OSCILLATOR ALIGNMENT

Turn the band switch to "low band" (clockwise).

	DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
12.	Two 120Ω carbon resistors	Across antenna terminals with 120Ω in each lead.	130.5MC (Unmod.)	Tuning gang fully open.	Vert. amp. to Point (E). Low side to chassis.	A12	Adjust for zero beat on scope.
13.	"	"	Approx. 99MC	Tuning gang fully closed.	"	L8	Vary generator frequency for zero beat. If zero beat occurs below 99MC spread L8 turns slightly. If zero beat occurs above 99MC compress L8 turns slightly. Repeat steps 12 and 13 until low band oscillator covers exactly 99MC to 130.5MC.

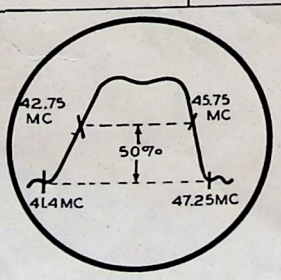


FIG. 1

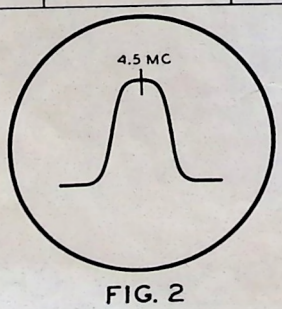


FIG. 2

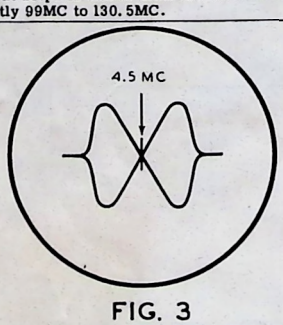


FIG. 3

ALIGNMENT INSTRUCTIONS (CONT.)

IF TRAP ADJUSTMENT

	DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
14.	Two 120Ω carbon resistors	Across antenna terminals with 120Ω in each lead.	44MC (Unmod.)	Any	DC probe to Point A. Common to chassis.	A13	Adjust for MINIMUM deflection.

HIGH BAND RF ALIGNMENT

Turn the band switch to "high band" (counter-clockwise).

	DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
15.	Two 120Ω carbon resistors	Across antenna terminals with 120Ω in each lead.	201MC (10MC SWP)	42.75MC 45.75MC	11	Vert. amp. to Point A. Low side to chassis.	A14, A15	Adjust for maximum amplitude of response curve. If peaks can not be made even, re-check video IF alignment. For this step peaks must be even as shown in step 4.
16.	"	"	213MC (10MC SWP)	"	13	"		Check the response curve on all high channels. If the response curve on any channel fails to fall within the limits shown in figures 4A and 4B, expand or compress turns of L5 and repeat steps 15 and 16 until all high band channels fall within the proper limits.

LOW BAND RF ALIGNMENT

Turn the band switch to "low band" (clockwise).

	DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
17.	Two 120Ω carbon resistors	Across antenna terminals with 120Ω in each lead.	79MC (10MC SWP)	42.75MC 45.75MC	5	Vert. amp. to Point A. Low side to chassis.	A16, L6	Adjust A16 and turns of L6 for maximum amplitude of response curve.
18.	"	"	85MC (10MC SWP)	"	6	"		Check to see that all low band channels fall within the limits of figure 4A and 4B.
			69MC (10MC SWP)		4			
			63MC (10MC SWP)		3			
			57MC (10MC SWP)		2			

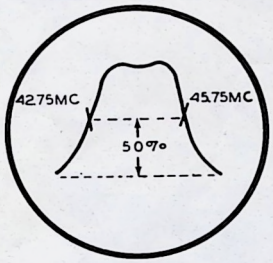


FIG.4

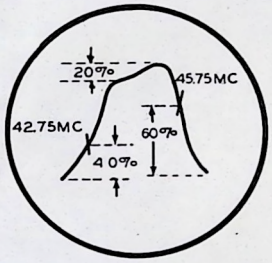


FIG.4A

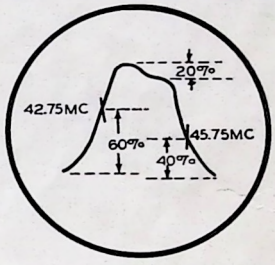
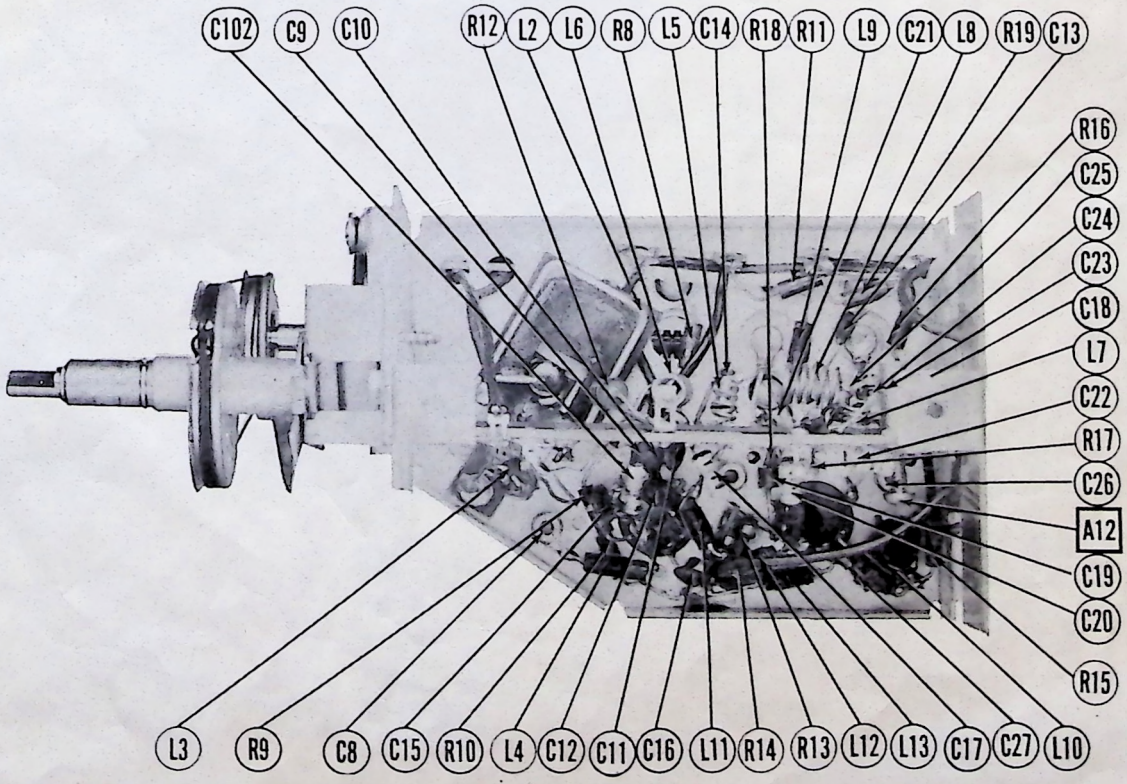


FIG.4B



RF TUNER

SILVERTONE MODELS 179-16, 180-16, 194-16, 195-16 (Ch. 132.890)

VOLTAGE AND RESISTANCE MEASUREMENTS

VOLTAGE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	6CB6	-.4VDC	.6VDC	0V	6.3VAC	120VDC	125VDC	0V		
V 2	6J6	122VDC	95VDC	0V	6.3VAC	-2VDC	§-6.6VDC	0V		
V 3	6CB6	-.5VDC	.2VDC	6.3VAC	0V	120VDC	120VDC	0V		
V 4	6CB6	-.3VDC	.4VDC	6.3VAC	0V	115VDC	115VDC	0V		
V 5	6CB6	-.3VDC	.4VDC	6.3VAC	0V	110VDC	110VDC	0V		
V 6	6CB6	0V	1.4VDC	6.3VAC	0V	110VDC	110VDC	0V		
V 7	6AC7	0V	0V	0V	.8VDC	25VDC	120VDC	6.3VAC	220VDC	
V 8	6AU6	#3.8VDC	#11VDC	0V	6.3VAC	#125VDC	#125VDC	#11VDC		
V 9	6AL5	-.2VDC	-.2VDC	6.3VAC	0V	0V	0V	-.5VDC		
V 10	12AU7	25VDC	-.5VDC	0V	0V	0V	40VDC	-.7VDC	0V	6.3VAC
V 11	6BF5	#25VDC	#35VDC	0V	6.3VAC	#130VDC	#125VDC	#25VDC		
V 12	12AU7	35VDC	-.5VDC	0V	0V	0V	7.4VDC	0V	3.4VDC	6.3VAC
V 13	6C4	100VDC 5VDC	0V	6.3VAC	0V	100VDC 5VDC	-7.5VDC -1.5VDC	0V		
V 14	6SN7GT	-4.3VDC 0V	410VDC 280VDC	28VDC 0V	-4.3VDC 0V	410VDC 280VDC	28VDC 0V	0V	6.3VAC	
V 15	6SN7GT	-75VDC	250VDC	0V	-4VDC -3VDC	180VDC 120VDC	2VDC -9.5VDC	6.3VAC	0V	
V 16	6CD6G	50VAC	6.3VAC	38VDC	-.3VDC	-.3VDC	0V	0V	180VDC	TOP CAP *
V 17	6W4GT	0V	0V	475VDC	0V	280VDC	0V	475VDC	475VDC	
V 18	1B3GT	* DO NOT MEASURE								
V 19	5U4G	0V	300VDC	0V	300VAC	0V	300VAC	0V	300VDC	
V 20	16KP4	0V	100VDC 0V	PIN 10 475VDC	PIN 11 100VDC	PIN 12 6.3VAC				

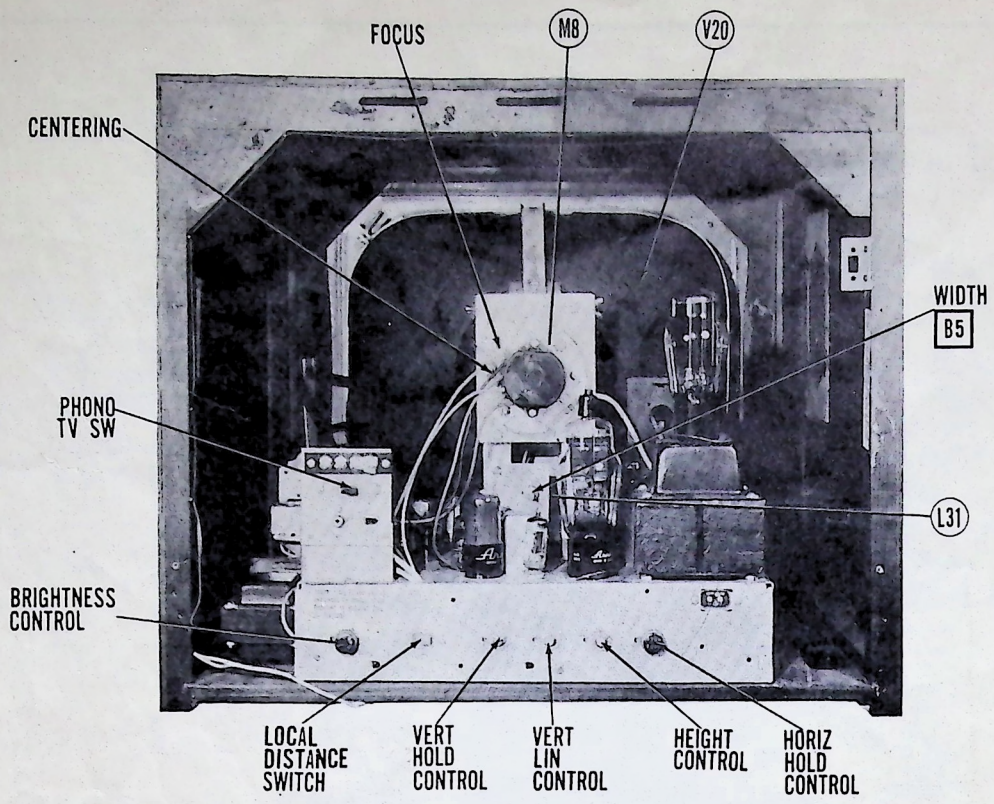
LOCAL - DISTANT SWITCH IN LOCAL POSITION
TV - PHONO SWITCH IN TV POSITION
§ TAKEN WITH VACUUM TUBE VOLTMETER
# MEASURED FROM JUNCTION OF R59, C1D, C6

RESISTANCE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	6CB6	160KΩ	68Ω	0Ω	.2Ω	#330Ω	#0Ω	0Ω		
V 2	6J6	#330Ω	#10KΩ	.1Ω	.2Ω	105KΩ	10KΩ	0Ω		
V 3	6CB6	160KΩ	47Ω	.1Ω	0Ω	#470Ω	#470Ω	0Ω		
V 4	6CB6	165KΩ	47Ω	.1Ω	0Ω	#620Ω	#620Ω	0Ω		
V 5	6CB6	165KΩ	47Ω	.1Ω	0Ω	#770Ω	#770Ω	0Ω		
V 6	6CB6	12KΩ	150Ω	.1Ω	0Ω	#770Ω	#770Ω	0Ω		
V 7	6AC7	0Ω	0Ω	0Ω	1Meg	2KΩ	#300Ω	.1Ω	†6.7KΩ	
V 8	6AU6	#100KΩ	#1.1KΩ	0Ω	.1Ω	†1.2KΩ	†1.2KΩ	#1.1KΩ		
V 9	6AL5	Inf.	Inf.	.1Ω	0Ω	0Ω	0Ω	18KΩ		
V 10	12AU7	†470KΩ	10Meg	0Ω	0Ω	0Ω	#16KΩ	1Meg	0Ω	.1Ω
V 11	6BF5	600KΩ	#470Ω	0Ω	.1Ω	† 465Ω	†2.8KΩ	600KΩ		
V 12	12AU7	#30KΩ	2.2Meg	0Ω	0Ω	0Ω	#38KΩ	0Ω	270KΩ	.1Ω
V 13	6C4	▲2.2Meg ▲3.5Meg.	Inf.	.1Ω	0Ω	▲2.2Meg ▲3.5Meg	1.6Meg 2.6Meg	0Ω		
V 14	6SN7GT	2.2Meg	▲10KΩ	3KΩ 0Ω	2.2Meg	▲10KΩ	3KΩ 0Ω	0Ω	.1Ω	
V 15	6SN7GT	300KΩ	▲90KΩ	0Ω	800KΩ	▲160KΩ ▲190KΩ	330KΩ	.1Ω	0Ω	
V 16	6CD6G	470KΩ	.1Ω	300Ω	470KΩ	470KΩ	Inf.	0Ω	†8.3KΩ	TOP CAP ▲40Ω
V 17	6W4GT	Inf.	Inf.	100KΩ	Inf.	† 70Ω	Inf.	▲.3Ω	▲ 0Ω	
V 18	1B3GT	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	TOP CAP ▲420Ω
V 19	5U4G	Inf.	50KΩ	Inf.	30Ω	Inf.	30Ω	Inf.	50KΩ	
V 20	16KP4	0Ω	35KΩ 0Ω	PIN 10 ▲100KΩ	PIN 11 270KΩ	PIN 12 .1Ω				

LOCAL-DISTANT SWITCH IN LOCAL POSITION
TV-PHONO SWITCH IN TV POSITION
MEASURED FROM JUNCTION OF R59, C1D, C6
† MEASURED FROM PIN 8 OF V 19
▲ MEASURED FROM PIN 3 OF V 17

1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltage measured at 1,000 ohms.
2. Pin numbers are counted in a clockwise direction on bottom of socket.
3. Measured values are from socket pin to common negative unless otherwise stated.
4. Line voltage maintained at 117 volts for voltage readings.
5. Front panels controls set at minimum.
6. Where readings may vary according to the setting of the service controls, both minimum and maximum readings are given.



CABINET-REAR VIEW

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Turn the set on and tune in a TV station, preferably a test pattern.
Turn the horizontal hold control to the mid-position of its range.
Turn the horizontal lock trimmer (B3) to one turn out from fully clockwise.
Connect the vertical input lead of an oscilloscope to terminal C of L30.
Turn the horizontal waveform slug (B2) to maximum counter-clockwise and then three turns clockwise.
Adjust the horizontal frequency slug (B1) until the picture synchronizes horizontally.
Adjust the waveform slug (B2) until the broad and narrow peaks of the waveform are of equal height as shown in figure 5. If necessary adjust B1 to keep the picture synchronized during adjustment of B2.
Remove the oscilloscope.
Turn the hold control to maximum clockwise and adjust B1 until the picture is out of sync. and shows one vertical or diagonal bar in the picture.
Turn the hold control to maximum counter-clockwise.
If the picture does not fall out of sync, momentarily interrupt the signal by switching to another channel and back again.
Turn the hold control slowly clockwise and carefully note the least number of bars present just before the picture synchronizes. There should be 2 bars, if not adjust B3 and repeat the check until 2 bars are present at the pull in point.

HORIZONTAL DRIVE AND WIDTH ADJUSTMENT
Turn the horizontal drive trimmer (B4) two turns counter-clockwise from maximum clockwise.
Adjust the width slug (B5) until the picture fills the mask horizontally.

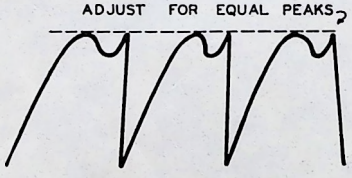
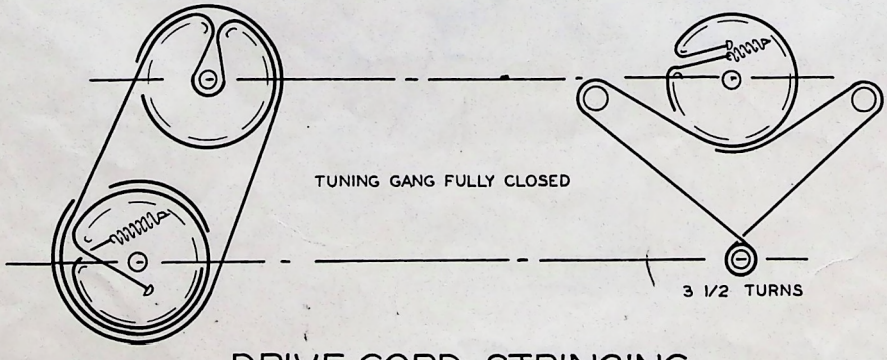
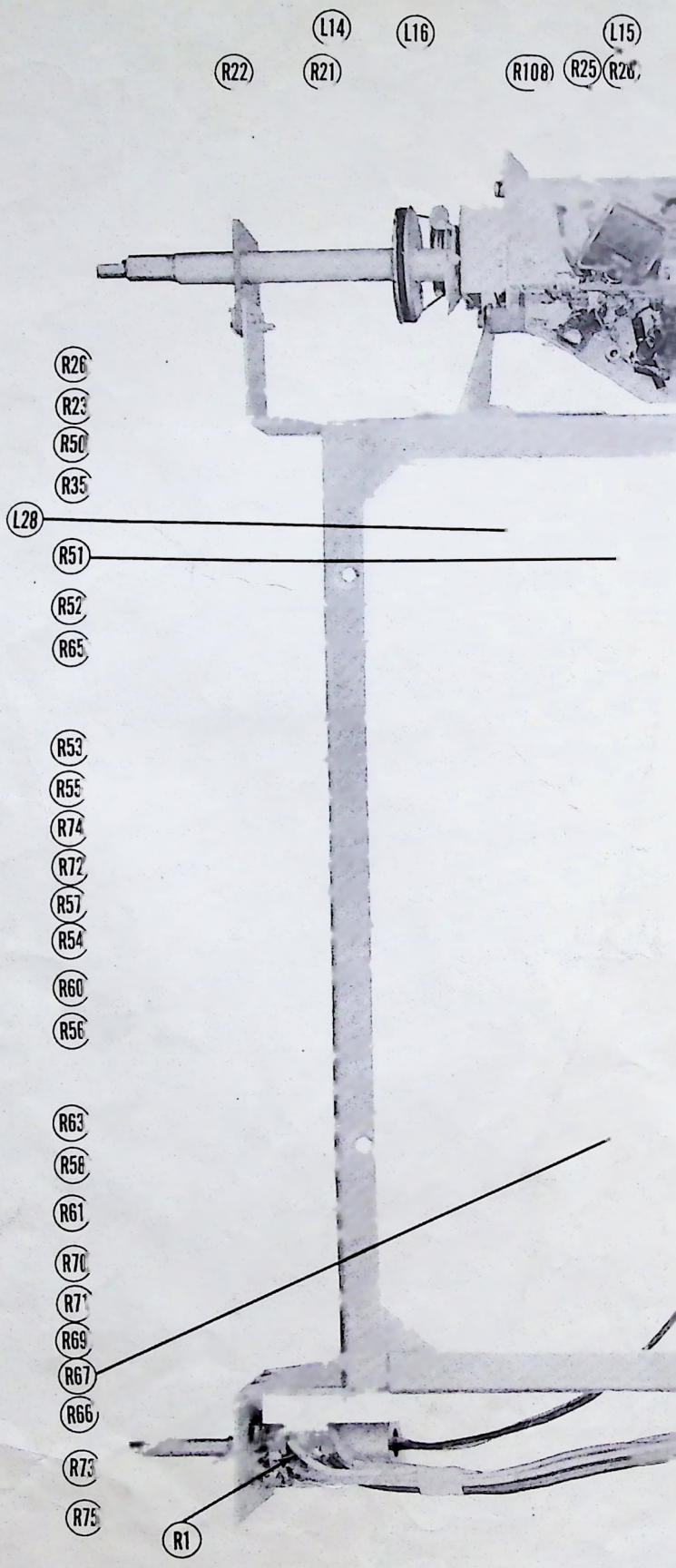


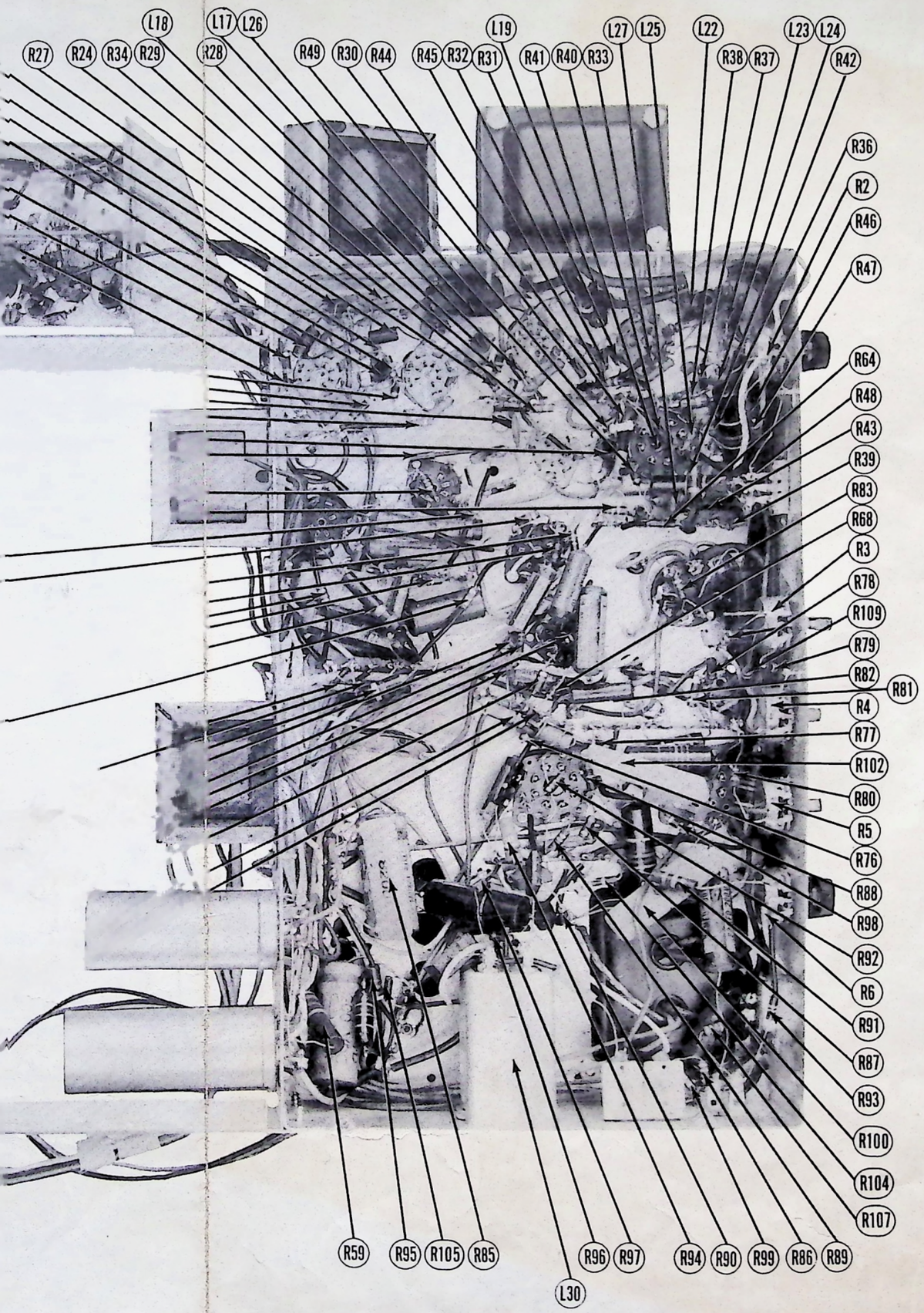
FIG. 5



DRIVE CORD STRINGING



CHASSIS BOTTOM VIE



RESISTOR AND INDUCTOR IDENTIFICATION

TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA: SILVERTONE PART No.	REPLACEMENT DATA: STANDARD REPLACEMENT	RMA BASE TYPE	NOTES
V1	RF Amplifier	6CB6	6CB6	6CK	
V2	Converter	6J6	6J6	7BF	
V3	1st Video IF Amp.	6CB6	6CB6	6CK	
V4	2nd Video IF Amp.	6CB6	6CB6	6CK	
V5	3rd Video IF Amp.	6CB6	6CB6	6CK	
V6A	4th Video IF Amp.	6CB6	6CB6	6CK	
B	4th Video IF Amp.	6BC5	6BC5	7BD	
V7	Video Amp.	6AC7	6AC7	8N	
V8	Sound IF Amp.	6AU6	6AU6	7BK	
V9	Ratio Det.	6AL5	6AL5	6BT	
V10	AF Amp. - Sync. Clipper	12AU7	12AU7	9A	
V11	Audio Output	6BF5	6BF5	7BZ	
V12	Sync. Sep. -Sync. Amp.	12AU7	12AU7	9A	
V13	Vert. Osc.	6C4	6C4	6BG	
V14	Vert. Amp.	6SN7GT	6SN7GT	8BD	
V15	Hor. AFC-Hor. Osc.	6SN7GT	6SN7GT	8BD	
V16	Horiz. Output	6CD6G	6CD6G	5BT	
V17	Damper	6W4GT	6W4GT	4CG	
V18	H.V. Rectifier	1B3GT	1B3GT	3C	
V19	L.V. Rectifier	5U4G	5U4G	5T	
V20A	Picture Tube	16KP4	16KP4	12D	
B	Picture Tube	16KP4A	16KP4A	12D	

CAPACITORS

Capacity values given in the rating column are in mfd. for Electrolytic and Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING: CAP.	RATING: VOLT	REPLACEMENT DATA: SILVERTONE PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	SPRAGUE PART No.	IDENTIFICATION CODES AND INSTALLATION NOTES
C1A	40	400	N 22422-11	AFH861162E				TVL-3764	▪ Filter
B	30	400						TVA-1504	■ Filter
C	80	200							▲ Output Cath. Decoupling
D	10	200							
C2A	10	450	N 22422-10	AF882J		UPT403		TVL-3785	▪ Decoupling
B	40	400		PRS50/100				TVA-1310	■ Decoupling
C	40	400							▲ Filter
D	100	50							Vert. Output Cath.
C3	4	300	N 23714	PRS350/4		BR435		TVA-1601	Output Screen
C4	5	150	N 23025-2	PRS150/4		BR415		TVA-1402	Stabilizing Cap
C5	5	150	N 23025-2	PRS150/4		BR415		TVA-1402	AGC Filter
C6	4	300	N 23714						Decoupling
C7	5	150	N 23025-2						AF Amp. Cath. †
C8	1-6		N 23106-3		829-6				Variable Trimmer
C9	1000			BPD-001	DD-102		801-001	19C1	AGC Filter
C10	1000			BPD-001	DD-102		801-001	19C1	RF Amp. Plate Dec.
C11	1000			BPD-001	DD-102		801-001	19C1	RF Amp. Plate Dec.
C12	1000			BPD-001	DD-102		801-001	19C1	RF Bypass
C13	1000			BPD-001	DD-102		801-001	19C1	RF Bypass
C14	13						NPOK-13		Fixed Padder
C15	1000			BPD-001	DD-102		801-001	19C1	RF Amp. Cath.
C16	1000			BPD-001	DD-102		801-001		Filament Bypass
C17	14						NPOK-14		RF Coupling
C18	1000			BPD-001	DD-102		801-001	19C1	Conv. Plate Dec.
C19	3.3			SI3.3NPO	TCZ-3.3		NPOK-3.3		Osc. Coupling
C20	33			SI33	D6-33		GP1K-33	19C24	Osc. Grid Cap
C21	8.2			SI8.2NPO			NPOK-8.2		Fixed Trimmer
C22	14						NPOK-14		Fixed Trimmer
C23	1-6		N 23106-3		829-6				Variable Trimmer
C24	82			SI82	D6-820		GP1K-82		Fixed Padder
C25	18				TCZ-18		NPOK-18		Fixed Padder
C26	.5-3		N 23106-1		829-3				Variable Trimmer
C27	5						N220K-5		Fixed Trimmer *
C28	1000			BPD-001	DD-102		801-001	19C1	AGC Filter
C29	1000			BPD-001	DD-102		801-001	19C1	AGC Filter
C30	100			SI100	D6-101		GP1K-100	19C11	IFCoupling
C31	1000			BPD-001	DD-102	1W5D1	801-001	19C1	AGC Filter
C32	1000			BPD-001	DD-102	1W5D1	801-001	19C1	RF Bypass
C33	610			SI680	D6-681	1W5T7	GP2K-680	19C17	1st V. IF Dec.
C34	1000			BPD-001	DD-102	1W5D1	801-001	19C1	1st V. IF Fil.
C35	39						N330K-39		Fixed Trimmer
C36	47			SI47	D6-470	5W5Q5	GP1K-47	19C25	IF Coupling
C37	1000			BPD-001	DD-102	1W5D1	801-001	19C1	AGC Filter
C38	1000			BPD-001	DD-102	1W5D1	801-001	19C1	RF Bypass
C39	610			SI680	D6-681	1W5T7	GP2K-680	19C17	2nd V. IF Dec.
C40	1000			BPD-001	DD-102	1W5D1	801-001	19C1	2nd V. IF Fil.
C41	39						N330K-39		Fixed Trimmer
C42	22			SI22	D6-220	5W5Q25	GP1K-22	19C23	IF Coupling
C43	1000			BPD-001	DD-102	1W5D1	801-001	19C1	AGC Filter
C44	1000			BPD-001	DD-102	1W5D1	801-001	19C1	AGC Filter
C45	1000			BPD-001	DD-102	1W5D1	801-001	19C1	RF Bypass
C46	610			SI680	D6-681	1W5T7	GP2K-680	19C17	3rd V. IF Dec.
C47	1000			BPD-001	DD-102	1W5D1	801-001	19C1	3rd V. IF Fil.
C48	47			SI47	D6-470	5W5Q5	GP1K-47	19C25	IF Coupling
C49	610			SI680	D6-681	1W5T7	GP2K-680	19C17	4th V. IF Dec.
C50	1000			BPD-001	DD-102	1W5D1	801-001	19C1	4th V. IF Cath.
C51	1000			BPD-001	DD-102	1W5D1	801-001	19C1	4th V. IF Fil.
C52	7			SI6.8NPO	TCZ-6.8	5W5Q1	NPOK-6.8		IF Coupling
C53	100			SI100	D6-101	5W5T1	GP1K-100	19C11	IF Coupling
C54	1000			BPD-001	DD-102	1W5D1	801-001	19C1	DAGC Dec.
C55	5			SI5NPO	TCZ-4.7	5R5V5	NPOK-5	MS-55	V. Det. Filter
C56	.1	200		P288-1	DF-104	PTE4P1		2TM-P1	Video Coupling
C57	5			SI5	TCZ-4.7	5W5V5	NPOK-5	MS-55	V. Amp. Grid
C58	.1	400		P488-1	DF-104	PTE4P1		4TM-P1	Video Coupling
C59	.047	600		P688-047	DF-503	PTE6S5		6TM-S47	Pic. Tube Grid
C60	.047	600		P688-047	DF-503	PTE6S5		6TM-S47	Accel. Anode
C61	2.2				TCZ-2.2				S. IF Coupling
C62	68						N220K-68		Fixed Trimmer
C63	33			SI33	D6-330	5W5Q4	GP1K-33	19C24	S. IF Coupling
C64	5000			BPD-005	DD-502	1D5D5	811-005	29C1	S. IF Cath.
C65	5000			BPD-005	DD-502	1D5D5	811-005	29C1	S. IF Dec.
C66	5						N220K-5		Fixed Trimmer
C67	330	500		SI330	D6-331	5W5T3	GP2K-330	19C14	Diode Load Cap

CAPAC

ITEM No.	RATING: CAP.	RATING: VOLT	REPLACEMENT DATA: SILVERTONE PART No.	AEROVOX PART No.	CEN PA
C68	.0022	600		P688-0022	D6
C69	.0047	600		P688-0047	D6
C70	.01	600		P688-01	D6
C71	.022	400		P488-022	D
C72	.22	200		P488-22	
C73	.01	600		P688-01	D6
C74	270			SI270	D6
C75	.01	600		P688-01	D
C76	.1	400		P488-1	D
C77	.01	600		P688-01	D6
C78	.0022	600		P688-0022	D6
C79	.0047	600		P688-0047	D6
C80	.0047	600		P688-0047	D6
C81	.0047	600		P688-0047	D6
C82	.047	600		P688-047	
C83	.1	600		P688-1	D
C84	39	500		1468-00004	D
C85	.0022	600		P688-0022	D
C86	.022	400		P488-022	D
C87	.22	200		P488-22	
C88	180	1000			
C89	.01	600		P688-01	
C90	.0015	600		P688-0015	D
C91	560	500		SI560	D
C92	.047	600		P688-047	D
C93	560	500		SI560	D
C94	.22	400		P488-22	
C95	.1	1000		1084-1	
C96	.47	200		P288-47	
C97	.047	600		P688-047	D
C98	390	500		1468-0004	D
C99	1000			BPD-001	D
C100	.01	600		P688-01	D
C101	.01	600		P688-01	D
C102	47			SI47	D
C103	.1	600		P688-1	D

* Some Models Use 14MMF In This Application.
† Used In Late Production Models.

C

ITEM No.	RATING: RESISTANCE	RATING: WATTS	REPLACEMENT DATA: SILVERTONE PART No.	IRC PART No.	C P
				Concentrikit	
R1A	2000Ω	½		B17-110 *	
B	1Meg			B13-137 *	
C	Shaft End	-	N-22464-21	E-187 *	R
D	Switch			76-1 *	
R2A	50KΩ	½	N-22464-25	Q11-123	A
B	Shaft		Not req.	Not req.	K
R3A	1Meg	½	N-22464-24	Q11-137	A
B	Shaft		Not req.	Not req.	K
R4A	3000Ω	½	N-22464-26	Q11-112	A
B	Shaft		Not req.	Not req.	F
R5A	2.5Meg	½	N-22464-10	Q11-239	A
B	Shaft		Not req.	Not req.	F
R6A	50KΩ	½	N-22464-25	Q11-123	A
B	Shaft		Not req.	Not req.	K

* Additional Parts To Be Used In "Concentrikit".

RE

ITEM No.	RATING: RESISTANCE	RATING: WATTS	REPLACEMENT DATA: SILVERTONE PART No.	IRC PART No.
R7	100Ω 20%	½		BTS-100
R8	3300Ω			BTS-3300
R9	560Ω 20%			BTS-560
R10	68Ω 20%			
R11	330Ω 20%			BTS-330
R12	3.9Ω	1		
R13	5600Ω	½		
R14	100KΩ 20%			
R15	10KΩ			
R16	330Ω 20%			BTS-330
R17	22KΩ			
R18	10KΩ			
R19	330 20%			BTS-330
R20	3300Ω 20%			BTS-3300
R21	8200Ω			
R22	47Ω			
R23	470Ω 20%			BTS-470
R24	3300Ω 20%			BTS-3300
R25	18KΩ 5%			
R26	47Ω			
R27	470Ω 20%			BTS-470
R28	18KΩ 5%			
R29	47Ω			
R30	470Ω 20%			BTS-470
R31	12KΩ 5%			
R32	150Ω			BTS-150
R33	470Ω 20%			BTS-470
R34	150Ω			BTS-150
R35	150Ω			BTS-150
R36	6800Ω			BTS-6800
R37	220KΩ			BTS-220K
R38	56KΩ			BTS-56K
R39	3300Ω			BTS-3300
R40	1Meg 20%			BTS-1Meg
R41	68Ω			
R42	5600Ω	1		BTA-5600
R43	470KΩ	½		BTS-470K
R44	1000Ω			BTS-1000
R45	220KΩ			BTS-220K
R46	22KΩ			BTS-22K
R47	47KΩ			BTS-47K
R48	470KΩ			BTS-470K

D DESCRIPTIONS

RS (CONT.)

MENT DATA ALAB No.	CORNELL-DUBILIER PART No.	ERIE PART No.	SPRAGUE PART No.	IDENTIFICATION CODES AND INSTALLATION NOTES
22	PTE6D2	GP2M-0022	6TM-D22	De-emphasis
2	PTE6D5	GP2M-0047	6TM-D47	Audio Coupling
03	PTE6S1	821-01	6TM-S1	Audio Coupling
03	PTE4S2		4TM-S22	Audio Coupling
	GT2P25		2TM-P22	Bias Filter
03	PTE6S1	821-01	6TM-S1	Output Plate
71	5W5T25	GP2K-270	19C31	Sync. Coupling
03	PTE6S1	821-01	6TM-S1	Sync. Coupling
04	PTE4P1		4TM-P1	Sync. Coupling
03	PTE6S1	821-01	6TM-S1	Sync. Coupling
22	PTE6D2	GP2M-0022	6TM-D22	Integrator Net
72	PTE6D5	GP2M-0047	6TM-D47	Integrator Net
72	PTE6D5	GP2M-0047	6TM-D47	Integrator Net
72	PTE6D5	GP2M-0047	6TM-D47	Vert. Osc. Grid
	PTE6S5		6TM-S47	Vert. Discharge
04	PTE6P1		6TM-P1	Vert. Sweep Coupling
50	5W5Q4	GP1K-39	1FM-44	Hor. Sync. Coupling
22	PTE6D2	GP2M-0022	6TM-D22	Hor. Sync. Coupling
03	PTE4S2		4TM-S22	AFC Filter
	GT2P25		2TM-P22	AFC Filter
				Hor. Osc. Grid
	PTE6S1		6TM-S1	Fixed Trimmer
52	1W5D15	GP2L-0015	6TM-D15	Hor. Discharge
61	5W5T5	GP2K-560	1FM-35	Hor. Sweep Coupling
03	PTE6S5		6TM-S47	Hor. Output Screen
61	5W5T5	GP2K-560	1FM-35	Hor. Output Screen
	GT4P25		4TM-P22	Hor. Output Cath.
	GT16P1			Damper Filter
	GT2P5		2TM-P47	Hor. Sweep Coupling
03	PTE6S5		6TM-S47	Hor. AFC Plate
91	5W5T4	GP2K-390	1FM-34	AFC Filter
02	1W5D1	801-001	19C1	Filament Bypass
03	PTE6S1	821-01	6TM-S1	Line Filter
03	PTE6S1	821-01	6TM-S1	Line Filter
70		GP1K-47	19C25	RF Coupling
04	PTE6P1		6TM-P1	Decoupling †

TROLS

RALAB No.		INSTALLATION NOTES
		Contrast Control - Front
	SBB-657-S	Volume Control And SW - Rear
96		Attach Per Instructions In "Concentrikit"
		Attach Per Instructions In "Concentrikit"
-S	AN-31	Brightness Control
8	AK-4	Attach to R2A Per Instructions
-S	AN-69	Vertical Hold Control
1	AK-4	Attach To R3A Per Instructions
-S	AN-7	Vertical Linearity Control
/4	AK-1	Attach to R4A Per Instructions
-S	AN-83	Height Control
/4	AK-1	Attach to R5A Per Instructions
-S	AN-31	Horizontal Hold Control
	AK-4	Attach to R6A Per Instructions

STORS

IDENTIFICATION CODES

ALL RESISTORS ± 10% UNLESS OTHERWISE SPECIFIED

- Antenna Loading
- AGC Network
- RF Amp. Grid
- RF Amp. Cathode
- RF Amp. Plate
- Parasitic Suppressor - See Note 1
- Converter Grid
- Converter Grid
- Converter Plate
- Converter Plate Decoupling
- Osc. Coil Shunt
- Osc. Grid
- Osc. Plate
- AGC Network
- 1st Video IF Amp. Grid
- 1st Video IF Amp. Cathode
- 1st Video IF Amp. Decoupling
- AGC Network
- 2nd Video IF Amp. Grid
- 2nd Video IF Amp. Cathode
- 2nd Video IF Amp. Decoupling
- 3rd Video IF Amp. Grid
- 3rd Video IF Amp. Cathode
- 3rd Video IF Amp. Decoupling
- 4th Video IF Amp. Grid
- 4th Video IF Amp. Cathode
- 4th Video IF Amp. Decoupling
- Decoupling
- Decoupling
- Video Det. Diode Load
- AGC Load
- AGC Network
- AGC Network
- Video Amp. Grid
- Video Amp. Cathode
- Video Amp. Plate - See Note 8
- Voltage Divider
- Voltage Divider
- Voltage Divider
- Voltage Divider - See Note 7
- Voltage Divider - See Note 7
- Picture Tube Cathode

RESISTORS (CONT.)

ITEM No.	RATING RESISTANCE	RATING WATTS	REPLACEMENT DATA SILVERTONE PART No.	REPLACEMENT DATA IRC PART No.	IDENTIFICATION CODES
R49	100KΩ	½			Sound IF Amp. Grid Leak
R50	1000Ω	½		BTS-1000	Sound IF Amp. Cathode
R51	1000Ω	½		BTS-1000	Sound IF Amp. Decoupling
R52	18KΩ	½		BTS-18K	Ratio Det. Diode Load
R53	47Ω	½		BW-½-47	Balancing
R54	27KΩ	½		BTS-27K	De-emphasis
R55	10Meg	½		BTS-10Meg	AF Amp. Grid - See Note 9
R56	470KΩ	½		BTS-470K	AF Amp. Plate
R57	470KΩ	½		BTS-470K	Output Grid
R58	180KΩ 5%	½		BTS-180K-5%	Output Grid
R59	470Ω	2		BTB-470	Output Cathode
R60	2500Ω	2			Output Screen - See Note 2
C61	220Ω	2		BW-2-220	Output Decoupling
C62	3300Ω	2		BTS-3300	AF Amp. Cathode
R63	160KΩ 5%	½			Boltage Divider
R64	10KΩ 20%	½		BTS-10K	Isolation - See Note 12
R65	270KΩ	½		BTS-270K	Isolation
R66	2.2Meg	½		BTS-2.2Meg	Sync. Sep. Grid
R67	47KΩ 20%	½		BTS-47K	Sync. Sep. Plate
R68	47KΩ 20%	½		BTS-47K	Voltage Divider
R69	270KΩ	½		BTS-270K	Sync. Amp. Cathode
R70	270KΩ	½		BTS-270K	Sync. Amp. Plate
R71	18KΩ 5%	½		BTS-18K-5%	Voltage Divider - See Note 3
R72	1Meg 20%	½		BTS-1Meg	Sync. Clipper Grid
R73	22KΩ	1		BTA-22K	Sync. Clipper Plate
R74	18KΩ 5%	½		BTS-18K-5%	Voltage Divider - See Note 3
R75	22KΩ	½		BTS-22K	Integrator
R76	8200Ω	½		BTS-8200	Integrator
R77	8200Ω	½		BTS-8200	Integrator
R78	1.5Meg	½		BTS-1.5Meg	Vert. Osc. Grid - See Note 4
R79	100KΩ	½		BTS-100K	Vert. Osc. Grid
R80	2.7Meg	½		BTS-2.7Meg	Vert. Osc. Plate - See Note 5
R81	2.2Meg	½		BTS-2.2Meg	Vert. Osc. Transformer Shunt
R82	1500Ω 5%	½		BTS-1500-5%	Vert. Peaking
R83	2.2Meg	½		BTS-2.2Meg	Vert. Amp. Grid
R84	820Ω	½		BTS-820	Vert. Amp. Cathode - See Note 6
R85	8200Ω	10		1 3/4A-8000	Decoupling - Wire Wound - See Note 10 and 14
R86	470KΩ	½		BTS-470K	Voltage Divider
R87	8200Ω	½		BTS-8200	Horizontal AFC Filter
R88	820KΩ 5%	½		BTS-820K-5%	Horizontal AFC Grid
R89	150KΩ	½		BTS-150K	Horizontal AFC Cathode
R90	180KΩ 5%	½		BTS-180K-5%	Horizontal AFC Cathode
R91	180KΩ 5%	1		BTA-180K-5%	Horizontal AFC Plate
R92	2.7Meg 5%	½		BTS-2.7Meg-5%	Voltage Divider
R93	100KΩ	½		BTS-100K	Voltage Divider
R94	120KΩ	1		BTA-120K	Horizontal Osc. Grid
R95	91KΩ 5%	1			Horizontal Osc. Plate
R96	8200Ω	½		BTS-8200	Horizontal Osc. Transformer Shunt
R97	470KΩ	½		BTS-470K	Horizontal Feedback
R98	47Ω	½			Parasitic Suppressor
R99	470KΩ	½		BTS-470K	Horizontal Output Grid
R100	300Ω	10		1 3/4A-300	Horizontal Output Cathode - Wire Wound
R101	3300Ω	½		BTS-3300	Horizontal Output Cathode - See Note 6
R102	8200Ω	10		1 3/4A-8000	Horizontal Output Screen - Wire Wound
R103	3.3Ω	½			HV Rectifier Filament
R104	100KΩ 20%	½		BTS-100K	ACC Anode Load
R105	1000Ω 20%	½		BTS-1000	Decoupling - See Note 6.
R106	100Ω	½		BTS-100	Decoupling - See Note 13
R107	470KΩ	½		BTS-470K	Isolation
R108	27KΩ 5%	½			2nd Video IF Trap Coil Shunt
R109	10Meg	½		BTS-10Meg	Voltage Divider

Note 1. Some Models Use 4.7Ω Resistor In This Application.
Note 2. Some Models Use 2200Ω Resistor In This Application.
Note 3. Some Models Use 15KΩ Resistor In This Application.
Note 4. Some Models Use 1.2Meg Resistor In This Application.
Note 5. Some Models Use 2.2Meg Resistor In This Application.
Note 6. Not Used In All Models.
Note 7. Some Models Use 68KΩ Resistor In Place Of R46 And R47.
Note 8. Late Production Models Use 2200Ω Resistor In This Application.
Note 9. Late Production Models Use 470KΩ Resistor In This Application.
Note 10. Late Production Models Use 6800Ω Resistor In This Application.
Note 12. Late Production Models Use 3300Ω 2 Watt Resistor In This Application.
Note 13. Used Only In Late Production Models.
Note 14. Some Models 12KΩ Resistor In This Application.

TRANSFORMER (POWER)

ITEM No.	RATING PRI.	RATING SEC. 1	RATING SEC. 2	RATING SEC. 3	REPLACEMENT DATA SILVERTONE PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.
T1	117VAC @1.23A	620VCT .250ADC	5V @ 3A	6.3V @1.2A	N23837			
T2	117VAC @.57A	6.3V @8.6A			N23840			

TRANSFORMER (SWEEP CIRCUITS)

ITEM No.	RATING DC RESISTANCE PRI.	RATING DC RESISTANCE SEC.	REPLACEMENT DATA SILVERTONE PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	NOTES
T3	192Ω	1050Ω	N-22446-2	A-8112 ①	A-4000 ①	TB0-3 ①	Vert. Block Osc.
T4	420Ω	23Ω Tap	N-23802-1		HV0-6		Horiz. Output
	Tap 41Ω	18Ω					
		SEC. 2					
		0Ω					
T5	1.1KΩ		N-23657		A-3037		Vert. Output
	Tap 10Ω						Horiz. Deflection Coil
T6A	28Ω		N -23816-2				Vert. Deflection Coil
B	46Ω		N -24292 ⑤				

① Drill new mounting hole.
⑤ Used in some models.

PARTS LIST CONTINUED ON PAGE 15

SILVERTONE MODELS 179-16, 180-16, 194-16, 195-16 (Ch. 132.890)

PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING				REPLACEMENT DATA				INSTALLATION NOTES
	IMPEDANCE		DC RES.		SILVERTONE PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
	PRI.	SEC.	PRI.	SEC.					
T7	2.2KΩ	4.3Ω	200Ω	.6Ω	N23490-1	A-3825	A-3018 ①	R0-2 ①	① Drill new mounting hole.

SPEAKER

ITEM No.	RATINGS		REPLACEMENT DATA			NOTES
	FIELD RES.	V. C. IMP.	SILVERTONE PART No.	VIKING PART No.	QUAM PART No.	
SP1A	PM	4.3Ω	N23609 ②	8J9	8A31	② Used in Models 179, 180
B	PM	4.3Ω	N23937 ③	69J9	69A2	③ Used in Models 194, 195
	CONE DIA.	V. C. DIA.				
SP2A	8"	9/16"				
B	6"X 9"	9/16"				

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA				INSTALLATION NOTES
	TOTAL DIRECT CURRENT	D. C. RESISTANCE	INDUCTANCE (0 CURRENT 1000 ~)	SILVERTONE PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
L1	.250ADC	43Ω	1.2 Henries	N22561-2	C2326	C-2991	TR3300 ①	① Drill new mtg. hole

COILS (RF-IF)

ITEM No.	USE	DC RES.		REPLACEMENT DATA		NOTES
		PRI.	SEC.	SILVERTONE PART No.	MEISSNER PART No.	
L2	Ant. Trans.	0Ω	0Ω			High-Band (Part of Tuner Part # AE23054-3)
L3	Ant. Trans.	.1Ω	.1Ω	N23112		Low-Band (Part of Tuner Part # AE23054-3)
L4	Grid Choke	.5Ω		N23502-1		Part of Tuner Part # AE23054-3
L5	RF Coil	0Ω				High-Band (Part of Tuner Part # AE23054-3)
L6	RF Coil	0Ω				Low-Band (Part of Tuner Part # AE23054-3)
L7	Osc. Coil	0Ω				High-Band (Part of Tuner Part # AE23054-3)
L8	Osc. Coil	0Ω				Low-Band (Part of Tuner Part # AE23054-3)
L9	RF Choke	.5Ω		N23502-1		Part of Tuner Part # AE23054-3
L10	1st Video IF	.1Ω				Part of Tuner Part # AE23054-3
L11	Fil. Choke	.1Ω		N22334-1		Part of Tuner Part # AE23054-3
L12	Fil. Choke	.1Ω		N22334-1		Part of Tuner Part # AE23054-3
L13	Fil. Choke	.1Ω		N22334-1		Part of Tuner Part # AE23054-3
L14	Fil. Choke	0Ω		N 23095		
L15	Fil. Choke	0Ω		N 23095		
L16	2nd Video IF	.1Ω		N 23614		Includes Trap
L17	Fil. Choke	0Ω		N 23095		
L18	3rd Video IF	.1Ω		N 23672		Includes Trap
L19	Fil. Choke	0Ω		N 23095		
L20	4th Video IF	.1Ω		N23673-1		
L21	5th Video IF	.1Ω		N23673-2		
L22	Peaking	1.6Ω		N 22500-6		20 Microhenries (Yellow Dot)
L23	Peaking	8.4Ω		N 22500-9		250 Microhenries (Violet Dot-Wound on 47KΩ Resistor)
L24	Peaking	7.9Ω		N 22500-3		250 Microhenries (Green Dot)
L25	Peaking	.9Ω		N 22500-10		4.5 Microhenries (Approximately)
L26	Peaking	9.5Ω		N 22500-11		300 Microhenries (Yellow Dot-Wound on 33KΩ Resistor)
L27	Peaking	11Ω		N 22500-12		450 Microhenries (Blue Dot)
L28	Sound IF	1.1Ω		N 23093		
L29	Ratio Det. Trans.	5.8Ω	2.1Ω	N 23094		
L30	Horiz. Osc. Coil	138Ω	40Ω	N 22563		
L31	Width Coil	5.2Ω		N 23894		

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA				REMARKS
			SILVERTONE PART No.		LITTELFUSE PART No.		
			FUSE	HOLDER	FUSE	HOLDER	
M1	3AG	1/4A	N-22493		318.250		

MISCELLANEOUS

ITEM No.	PART NAME	SILVERTONE PART No.	NOTES
M2	RF Tuner	N23054-3	
M3	Crystal	N 23261	Video Det. -(1N-64)
M4	Crystal	N.23261	AGC Rectifier -(1N-64)
M5	Switch	N.23245	TV-Phono
M6	Switch	N.24242	Local-Distant
M7	Switch	N22868	Power Interlock
M8	Ion Trap	N 24119-1	
M9	Focus Magnet	N 23910-1	
B3, B4	Trimmer	N 23130-2	Dual (Horiz. Lock 3-35MMF), (Horiz, Drive 10-160MMF)
	Safety Glass	N 23775	
	Knob	N24046-2	Band Change Assembly (Model 179)
	Knob	N24046-1	Band Change Assembly (Models 180, 194, 195)
	Knob	N24049-2	Channel Selector (Model 179)
	Knob	N24049-1	Channel Selector (Models 180, 194, 195)
	Knob	N24050-2	Volume (Model 179)
	Knob	N24050-1	Volume (Models 180, 194, 195)
	Knob	N22686-1	Vertical Hold
	Knob	N22686-2	Horizontal Hold
	Knob	N22686-3	Brightness